BOBBY JINDAL
GOVERNOR

PEGGY M. HATCH
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY

ENVIRONMENTAL SERVICES

March 19, 2010

CERTIFIED MAIL# 7009 2820 0001 8249 4246
RETURN RECEIPT REQUESTED

FILE NUMBER: LA0118770
AI NUMBER: 117690
ACTIVITY NUMBER: PER20090003

City of Lake Charles
Sewage Treatment Plant "D"
1132 W. 18th Street
Lake Charles, LA 70601

Attention: Honorable Randy Roach, Mayor

Subject: Draft Louisiana Pollutant Discharge Elimination System (LPDES) permit to discharge treated sanitary wastewater into the Calcasieu River Industrial Canal, thence into the Calasieu River Ship Channel from a publicly owned treatment works serving the City of Lake Charles.

Dear Mayor Roach:

The Department of Environmental Quality proposes to reissue an LPDES permit with the effluent limitations, monitoring requirements, and special conditions listed in the attached DRAFT PERMIT. Please note that this is a DRAFT PERMIT only and as such does not grant any authorization to discharge. Authorization to discharge in accordance with this permitting action will only be granted after all requirements described herein are satisfied and by the subsequent issuance of a FINAL PERMIT. Upon issuance, the LPDES permit shall replace the previously issued LPDES permit.

This Office will publish a public notice one time in the local newspaper of general circulation, and in the Department of Environmental Quality Public Notice Mailing List. A copy of the public notice containing the specific requirements for commenting to this draft permit action will be sent under separate cover at the time the public notice is arranged. In accordance with LAC 33:IX.6521.A, the applicant shall receive and is responsible for paying the invoice(s) from the newspaper(s). LAC 33:IX.6521 states, "...The costs of publication shall be borne by the applicant."

The invoice, fee rating worksheet, and a copy of the fee regulations will be sent under a separate cover letter as applicable. Please note that a copy of the fee rating worksheet is also attached to this draft permit. We must receive your fee payment by check, money order, or draft accompanied by the original and a copy of your invoice. A copy of the entire Louisiana Water Quality Regulations (Volume 14) may be obtained from the LDEQ Office of Environmental Assessment, Post Office Box 4314, Baton Rouge, Louisiana 70821-4314, (225) 219-3236.

Pursuant to LAC 33.IX.1309.I, LAC 33.IX.6509.A.1 and LAC 33.I.1701, you must pay any outstanding fees to the Department. Therefore, you are encouraged to verify your facility's fee status by contacting LDEQ's Office of Management and Finance, Financial Services Division at (225) 219-3863. Failure to pay in the manner and time prescribed could result in applicable enforcement actions as prescribed in the Environmental Quality Act, including, but not limited to revocation or suspension of the applicable permit, and/or assessment of a civil penalty against you.

City of Lake Charles
Sewage Treatment Plant "D"
RE: LA0118770; AI117690; PER20090003
Page Two

A Municipal Water Pollution Prevention Environmental Audit Report Form will be furnished upon finalization of the permit. Please consult Part II, Section B of the permit for instructions regarding this audit.

For sanitary treatment plants, the plans and specifications must be approved by the Department of Health and Hospitals, Office of Public Health, P.O. Box 4489, Baton Rouge, Louisiana 70821-4489, (225) 342-7395.

Should you have any questions concerning any part of the DRAFT PERMIT, public notice requirements, or fees, please contact Mrs. Angela Marse, Office of Environmental Services, Water Permits Division, Municipal and General Water Permits Section at the address on the preceding page or telephone (225) 219-. Please reference your Agency Interest Number **117690** and your Louisiana Pollutant Discharge Elimination System Number **LA0118770** on all future correspondence to the Department.

Sincerely,

Tom Killeen, Environmental Scientist Manager
Municipal and General Water Permits Section

AM

Attachments (Draft Permit Parts I-III, Fact Sheet, and Fee Sheet)

cc: IO-W

Angela Marse
Water Permits Division

ec: Ms. Gayle Denino
Office of Management & Finance

Permit Compliance Unit
Office of Environmental Compliance

For Public Notice
Public Participation Group
Office of Environmental Assistance

Public Health Chief Engineer
Office of Public Health
Department of Health and Hospitals

GUIDANCE TO UNDERSTANDING THE WATER PERMIT FORMAT

Components of the Permit Report

General Information Sheet - A summary of the facility information, such as all permit and ID numbers, facility physical and mailing addresses, latitude/longitude at front gate, facility contacts and phone numbers, Standard Industrial Classification (SIC) and North American Industry Classification (NAICS) codes.

Inventory Sheet - Lists all subject items and descriptions, any relationships that may exist between subject items, and any alternate identifications for the subject items.

Effluent Limitations and Monitoring Requirements - Subject Items are listed including Parameters, Discharge Limitations and Units, Sample Type, Frequency, and Which Months. See example below.

Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
TSS (Total Suspended Solids) 00530[A] 1[B]	1025	1350	lbs/day	*****	30	45	mg/L	quarterly	grab sampling	All Year

Footnotes:

A Number identifying the STORET code.

B Number identifying monitoring location.

Narrative Requirements - All applicable narrative requirements for the entire Agency Interest (AI) appear in text form. Submittal Actions and Narrative Requirements for each Subject Item follow the Agency Interest narrative requirements.

Definitions

Agency Interest (AI) - Any entity that is being regulated or is of interest to LDEQ

Agency Interest (AI) ID - Numerical identifier of Agency Interest (AI)

Activity Number - Each action taken for an Agency Interest (AI). This identifier consists of a total of 11 characters, 3 letters represents the regulatory program followed by four digits representing the year the application was received by LDEQ, and four digits which are sequentially assigned. Example PER19990001, this would identify the activity as the *first permitting* action taken for this Agency Interest (AI) in the year ***1999***.

Phases – Periods during which the associated requirement applies to the particular parameter. *For Example,* if the permit contains a compliance schedule with interim limits, this column will state the phase in which the compliance schedule of the associated requirement is applicable.

Subject Item (SI) - Components or groups of components of an Agency Interest (AI), including the Agency Interest (AI) itself. Each Subject Item is defined by a category and a type. Note: The type does not appear in the Subject Item ID.

Subject Item ID - Identifier assigned sequentially to each Subject Item within an Agency Interest (AI). It is composed of three letters representing the category of the Subject Item and is followed by the sequentially assigned number. Example RLP 1.

Which Months - Denotes the months that have a particular parameter requirement. This is usually used for seasonal limitations.

General Information Sheet

Agency Interest/Facility Name: Lake Charles City of - Sewage Treatment Plant D - Construction

Agency Interest/Facility ID: 117690

Also Known As:

ID	Name	By/For	Dates
LA0118770	LPDES Permit #	LPDES Permit #	10-28-2004

Physical Location: 3820 Tank Farm Rd
Lake Charles, LA 70000

Main Phone: 3374911224

Mailing Address: 1132 W 18th St
Lake Charles, LA 70601

Location of Front Gate: 30.125 latitude ; -93.289444 longitude

Related People:

Name	Phone (Type)	Relationship
Ernie Williamson	3374911224 (Work phone number)	Employed by
Ernie Williamson	3374911224 (Work phone number)	Water Permit Contact For
Ernie Williamson	3374911224 (Work phone number)	Responsible Official for
Glen Rigmaiden	3374919192 (Work phone number)	Employed by
J. Donovan	3184911224 (Work phone number)	Water Billing Party for
J. Donovan	3184911224 (Work phone number)	Employed by
J. Donovan	3184911224 (Work phone number)	Water Permit Contact For
Wayne Harris	3376258353 (Work phone number)	Employed by
Wayne Harris	3376258353 (Work phone number)	Employed by

Related Organizations:

Name	Phone (Type)	Relationship
Lake Charles City of	3374911224 (Work phone number)	Operates
Lake Charles City of	3374911224 (Work phone number)	Water Billing Party for
Lake Charles City of	3374911224 (Work phone number)	Owns
Lake Charles City of - Sewage Treatment Plant D Construction		Owns
Lake Charles City of - Sewage Treatment Plant D Construction		Operates
Meyer & Associates Inc	3186258353 (Work phone number)	Employed by
Meyer & Associates Inc	3186258353 (Work phone number)	Provides environmental services for
Meyer & Associates Inc	3186258353 (Work phone number)	Provides environmental services for

SIC Codes: 4952, Sewerage systems

Renewal Application - Inventories

Lake Charles City of - Sewage Treatment Plant D - Construction
Facility ID No.: 117690
Activity ID No.: PER20090003

Subject Item Inventory:

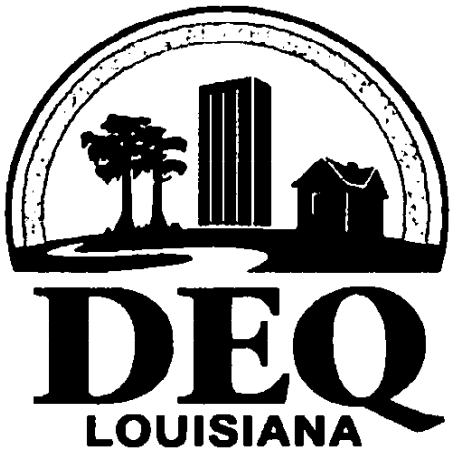
ID	Designation	Description
AI 117690		
RLP 1	OUTFALL 001	SANITARY WASTEWATER (design capacity 4.95)

Relationships:

Subject Item Inventory Alternate IDs:

ID	Description	Alternate ID	Alternate Name	User Group

DRAFT



PERMIT NUMBER: LA0118770
AGENCY INTEREST NO.: 117690
ACTIVITY NO.: PER20090003

OFFICE OF ENVIRONMENTAL SERVICES

Water Discharge Permit

Pursuant to the Clean Water Act, as amended (33 U.S.C. 1251 et seq.), and the Louisiana Environmental Quality Act, as amended (La. R. S. 30:2001 et seq.), rules and regulations effective or promulgated under the authority of said Acts, and in reliance on statements and representations heretofore made in the application, a Louisiana Pollutant Discharge Elimination System permit is issued authorizing

City of Lake Charles
Sewage Treatment Plant "D"
1132 W. 18th Street
Lake Charles, LA 70601

Type Facility: publicly owned treatment works serving the City of Lake Charles

Location: 3820 Tank Farm Road in Lake Charles, Calcasieu Parish

Receiving Waters: Calcasieu River Industrial Canal, thence into the Calasieu River Ship Channel (Subsegment 030401)

to discharge in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, and III attached hereto.

This permit shall become effective on

This permit and the authorization to discharge shall expire five (5) years from the effective date of the permit.

Issued on

Cheryl Sonnier Nolan
Assistant Secretary

DRAFT

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Permit No.: LA0118770

Agency Interest: 117690

Subject Item: RLP0000000001: OUTFALL 001

SANITARY WASTEWATER (design capacity 4.95)

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
Biomonitoring, Coefficien t of Variation, 7-Day Chr onic, Ceriodaphnia dubia TQP3B /	******	******	******	Report 7 DA MIN	Report MO AV MN	******	percent	quarterly	24-hr composite	All Year
Biomonitoring, Coefficien t of Variation, 7-Day Chr onic, Pimephales promelas TQP6C /	******	******	******	Report 7 DA MIN	Report MO AV MN	******	percent	quarterly	24-hr composite	All Year
Biomonitoring, Low Flow P ass/Fail Lethality Static Renewal, 7-Day Chronic, Ceriodaphnia dubia TLP3B /	******	******	******	Report 7 DA MIN	Report MO AV MN	******	pass =0, fail = 1	quarterly	24-hr composite	All Year
Biomonitoring, Low Flow P ass/Fail Lethality Static Renewal, 7-Day Chronic, Pimephales promelas TLP6C /	******	******	******	Report 7 DA MIN	Report MO AV MN	******	pass =0, fail = 1	quarterly	24-hr composite	All Year

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Permit No.: LA0118770

Agency Interest: 117690

Subject Item: RLP0000000001: OUTFALL 001
SANITARY WASTEWATER (design capacity 4.95)

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Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
Biomonitoring, NOEC Lethality Static Renewal, 7-Day Chronic, Ceriodaphnia dubia TOP3B 1	******	******	******	Report 7 DA MIN	Report MO AV MN	******	percent	quarterly	24-hr composite	All Year
Biomonitoring, NOEC Lethality Static Renewal, 7-Day Chronic, Pimephales promelas TOP6C 1	******	******	******	Report 7 DA MIN	Report MO AV MN	******	percent	quarterly	24-hr composite	All Year
Biomonitoring, NOEC Sub-Lethality Static Renewal, 7-Day Chronic, Ceriodaphnia dubia TPP3B 1	******	******	******	Report 7 DA MIN	Report MO AV MN	******	percent	quarterly	24-hr composite	All Year
Biomonitoring, NOEC Sub-Lethality Static Renewal, 7-Day Chronic, Pimephales promelas TPP6C 1	******	******	******	Report 7 DA MIN	Report MO AV MN	******	percent	quarterly	24-hr composite	All Year

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Permit No.: LA0118770

Agency Interest: 117690

Subject Item: RLP0000000001: OUTFALL 001
SANITARY WASTEWATER (design capacity 4.95)

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Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
Biomonitoring, Pass/Fail, Static Renewal, 7-Day Chronic, Ceriodaphnia dubia TGP3B 1	******	******	******	Report 7 DA MIN	Report MO AV MN	******	pass =0, fail = 1	quarterly	24-hr composite	All Year
Biomonitoring, Pass/Fail, Static Renewal, 7-Day Chronic, Pimephales promelas TGP6C 1	******	******	******	Report 7 DA MIN	Report MO AV MN	******	pass =0, fail = 1	quarterly	24-hr composite	All Year
Biomonitoring, Whole Effluent Toxicity, Retest #1 22415 1	******	******	******	Report 7 DA MIN	Report MO AV MN	******	pass =0, fail = 1	as needed	24-hr composite	All Year
Biomonitoring, Whole Effluent Toxicity, Retest #2 22416 1	******	******	******	Report 7 DA MIN	Report MO AV MN	******	pass =0, fail = 1	as needed	24-hr composite	All Year

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Permit No.: LA0118770

Agency Interest: 117690

Subject Item: RLP0000000001: OUTFALL 001
SANITARY WASTEWATER (design capacity 4.95)

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
Biomonitoring, Whole Effluent Toxicity, Retest #3 51443 1	******	******	******	Report 7 DA MIN	Report MO AV MN	******	pass =0, fail = 1	as needed	24-hr composite	All Year
BOD, 5-day (20 degrees C) 00310 1	412 MO AVG	******	lb/day	******	10 MO AVG	15 WKLY AVG	mg/l	two times per week	6-hr composite	All Year
Fecal coliform, general 74055 1	******	******	******	******	14 MO AVG	43 WKLY AVG	colonies/100 ml	two times per week	grab sampling	All Year
Flow, in conduit or through treatment plant 50050 1	Report MO AVG	Report WKLY AVG	million gallons/day	******	******	******	******	continuously	continuous recorder	All Year

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Permit No.: LA0118770

Agency Interest: 117690

Subject Item: RLP0000000001: OUTFALL 001
SANITARY WASTEWATER (design capacity 4.95)

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
pH 00400 1	******	******	******	6 INST MIN	******	9 INST MAX	s.u.	two times per week	grab sampling	All Year
TSS (Total Suspended Solids) 00530 1	619 MO AVG	******	lb/day	******	15 MO AVG	23 WKLY AVG	mg/l	two times per week	6-hr composite	All Year

AI0000117690:

Narrative Requirements:

Condition No.	Condition
T-1	Report violations of daily maximum limitations for the pollutants listed in Other Conditions orally to the Office of Environmental Compliance within 24 hours from the time you became aware of the violation followed by a written report in five days, under the provisions of Standard Conditions Section D.6.e. (3) of this permit. [LAC 33:IX.2707.G]
T-2	Obtain prior approval from the Office of Environmental Services for any new proposed discharges at the site. [LAC 33:IX.2701]
T-3	Record all monitoring results per Standard Conditions Section C.4. [LAC 33:IX.2701.J.2]

RLP0000000001 (OUTFALL 001) SANITARY WASTEWATER (design capacity 4.95):

Submittal/Action Requirements:

Condition No.	Condition
S-1	Submit Quarterly Discharge Monitoring Report (DMR): Due quarterly, by the 15th of January, April, July, and October. Postmark no later than 1) April 15th, for monitoring in the months of January, February, and March; 2) July 15th, for monitoring in the months of April, May, and June; 3) October 15th, for monitoring in the months of July, August and September; and 4) January 15th, for monitoring in the months of October, November, and December. [LAC 33:IX.2701.L.4]
S-2	Submit Monthly Discharge Monitoring Report (DMR): Due monthly, by the 15th of the month. Hand deliver, postmark, or electronically submit in accordance with LAC 33:IX.2101.A & B, no later than the 15th day of the month following each reporting period. [LAC 33:IX.2701.L.4]

Narrative Requirements:

Condition No.	Condition
T-1	Discharge Monitoring Report Prepare and submit DMRs for each outfall. Place an "X" in the No Discharge box located in the upper right corner of the DMR if there is a "No Discharge" event at any of the monitoring outfall(s) during the reporting period. Submit duplicate copies of DMRs (one set of originals and one set of copies) signed and certified as required by LAC 33:IX.2333.B, and all other reports (one set of originals) required by this permit, to the Department of Environmental Quality, Office of Environmental Compliance, Permit Compliance Unit, Post Office Box 4312, Baton Rouge, Louisiana 70821-4312. [LAC 33:IX.2701.L.4]
T-2	Monitored at the point of discharge from the last treatment unit prior to mixing with other waters. [LAC 33:IX.2701.J.4]
T-3	There shall be no discharge of floating or settleable solids or visible foam in other than trace amounts, nor of free oil or other oily materials, nor of toxic materials in quantities such as to cause toxicity to aquatic organisms. [LAC 33:IX.1113.B]
T-4	Report any biomonitoring test which results in an NOEC value less than the critical dilution for lethal or sub-lethal parameters on a Discharge Monitoring Report (DMR) and submit by the 15th of the month following the Monitoring Period in which the test failure occurred. [LAC 33:IX.1121]

RLP0000000001 (continued):

Narrative Requirements:

Condition No.	Condition
T-5	Biomonitoring, Low Flow Pass/Fail Lethality Static Renewal, 7-Day Chronic, Ceriodaphnia dubia, Biomonitoring, NOEC Lethality Static Renewal, 7-Day Chronic, Ceriodaphnia dubia, and Biomonitoring, Pass/Fail, Static Renewal, 7-Day Chronic, Ceriodaphnia dubia: If applicable (see biomonitoring recommendation), a request may be made for a testing frequency reduction upon the successful completion of the first four consecutive quarters of testing for the more sensitive species (usually the Ceriodaphnia dubia), with no lethal or sub-lethal effects demonstrated at or below the critical dilution. If granted, the monitoring frequency may be reduced to not less than twice per year for the more sensitive species (usually the Ceriodaphnia dubia). If any test fails the survival endpoint at any time during the term of this permit, two monthly retests are required and increase the monitoring frequency for the more sensitive species (usually the Ceriodaphnia dubia) to once per quarter until the permit is reissued. [LAC 33:IX.1121]
T-6	Biomonitoring, NOEC Sub-Lethality Static Renewal, 7-Day Chronic, Ceriodaphnia dubia: If applicable (see biomonitoring recommendation), a request may be made for a testing frequency reduction upon the successful completion of the first four consecutive quarters of testing for the more sensitive species (usually the Ceriodaphnia dubia), with no lethal or sub-lethal effects demonstrated at or below the critical dilution. If granted, the monitoring frequency may be reduced to not less than twice per year for the more sensitive species (usually the Ceriodaphnia dubia). If, during the first four quarters of testing, sub-lethal effects are demonstrated to the more sensitive species (usually the Ceriodaphnia dubia), perform two monthly retests. In addition, perform quarterly testing until the effluent passes both the lethal and sub-lethal test endpoints for the more sensitive species (usually the Ceriodaphnia dubia) for four consecutive quarters. [LAC 33:IX.1121]
T-7	Biomonitoring, Low Flow Pass/Fail Lethality Static Renewal, 7-Day Chronic, Pimephales promelas, Biomonitoring, NOEC Lethality Static Renewal, 7-Day Chronic, Pimephales promelas, and Biomonitoring, Pass/Fail, Static Renewal, 7-Day Chronic, PimePhales promelas: If applicable (see biomonitoring recommendation), a request may be made for a testing frequency reduction upon the successful completion of the first four consecutive quarters of testing for the less sensitive species (usually the Pimephales promelas), with no lethal or sub-lethal effects demonstrated at or below the critical dilution. If granted, the monitoring frequency may be reduced to not less than once per year for the less sensitive species (usually the Pimephales promelas). If any test fails the survival endpoint at any time during the term of this permit, two monthly retests are required and increase the monitoring frequency for the less sensitive species (usually the Pimephales promelas) to once per quarter until the permit is reissued. [LAC 33:IX.1121]
T-8	Future water quality studies may indicate potential toxicity from the presence of residual chlorine in the treatment facility's effluent. Therefore, a future Total Residual Chlorine Limitation may be required if chlorine is used as a method of disinfection. In many cases, this becomes a NO MEASUREABLE Total Residual Chlorine Limitation. If such a limitation is imposed, provide for dechlorination of the effluent prior to discharge. [LAC 33:IX.2701]
T-9	Biomonitoring Coefficient of Variation, 7-Day Chronic, Ceriodaphnia dubia: Report the highest (critical dilution or control) Coefficient of Variation. [LAC 33:IX.1121]
T-10	Biomonitoring Coefficient of Variation, 7-Day Chronic, Pimephales promelas: Report the highest (critical dilution or control) Coefficient of Variation. [LAC 33:IX.1121]

OTHER CONDITIONS

In addition to the standard conditions required in all permits and listed in Standard Conditions, the office has established the following additional requirements in accordance with the Louisiana Water Quality Regulations.

SECTION A. GENERAL STATEMENTS

1. The Louisiana Department of Environmental Quality (LDEQ) reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional water quality studies and/or TMDL's. The LDEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDL's for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as requested by the permittee and/or as necessary to achieve compliance with water quality standards. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

   In accordance with LAC 33:IX.2903., this permit may be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitations issued or approved under sections 301(b)(2)(c) and (D); 304(b)(2); and 307(a)(2) of the Clean Water Act, if the effluent standard or limitations so issued or approved:

   a) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or

   b) Controls any pollutant not limited in the permit; or

   c) Requires reassessment due to change in 303(d) status of waterbody; or

   d) Incorporates the results of any total maximum daily load allocation, which may be approved for the receiving water body.

2. This permit does not in any way authorize the permittee to discharge a pollutant not listed or quantified in the application or limited or monitored for in the permit.

3. Authorization to discharge pursuant to the conditions of this permit does not relieve the permittee of any liability for damages to state waters or private property. For discharges to private land, this permit does not relieve the permittee from obtaining proper approval from the landowner for appropriate easements and rights of way.

4. For definitions of monitoring and sampling terminology see Standard Conditions, Section F.

5. <u>24-hour Oral Reporting: Daily Maximum Limitation Violations</u>

   Under the provisions of Standard Conditions Section D.6.e.(3) of this permit, violations of daily maximum limitations for the following pollutants shall be reported orally to the Office of Environmental

OTHER CONDITIONS(continued)

Compliance within 24 hours from the time the permittee became aware of the violation followed by a written report in five days.

Pollutants: None

6. As an exception to Standard Conditions Section D.6.e.(1), the permittee shall report all overflows in the collection system with the Discharge Monitoring Report submittal. These reports shall be summarized and reported in tabular format. The summaries shall include: the date, time, duration, location, estimated volume, and cause of the overflow; observed environmental impacts from the overflow; actions taken to address the overflow; and the ultimate discharge location if not contained (e.g., storm sewer system, ditch, tributary). All other overflows and overflows which endanger human health or the environment must be reported in the manner described in Standard Conditions, Section D.6 of the permit.

OTHER CONDITIONS(continued)

7. In accordance with La.R.S.40:1149, it shall be unlawful for any person, firm, or corporation, both municipal and private, operating a water supply system or sewerage system to operate same unless the competency of the operator is duly certified to by the State Health Officer. Furthermore, it shall be unlawful for any person to perform the duties of an operator without being duly certified. Therefore, the City of Lake Charles should take whatever action is necessary to comply with La.R.S. 40:1149.

8. The acceptance of hauled domestic septage is prohibited unless otherwise authorized by this Department. Septage is defined in LAC 33:IX.2313 as the liquid and solid material pumped from a septic tank, cesspool, portable toilet, Type III marine sanitation device, any similar domestic sewage treatment system, or a holding tank when the system is cleaned or maintained that receives only domestic sewage.

9. COMPLIANCE SCHEDULE

   The permittee shall achieve compliance with the effluent limitations and monitoring requirements specified for discharges in accordance with the following schedule:

   The effective date of the permit.

OTHER CONDITIONS(continued)

SECTION B. STORMWATER DISCHARGES

1. This section applies to all stormwater discharges from the facility, either through permitted outfalls or through outfalls which are not listed in the permit or as sheet flow.

2. Any runoff leaving the developed areas of the facility, other than the permitted outfall(s), exceeding 50 mg/L TOC, 15 mg/L Oil and Grease, or having a pH less than 6.0 or greater than 9.0 standard units shall be a violation of this permit. Any discharge in excess of these limitations, which is attributable to offsite contamination, shall not be considered a violation of this permit. A visual inspection of the facility shall be conducted and a report made annually as described in Paragraph 4 below.

3. The permittee shall prepare, implement, and maintain a Storm Water Pollution Prevention Plan (SWP3) within six (6) months of the effective date of the final permit. The terms and conditions of the SWP3 shall be an enforceable Part of the permit. EPA document 833-R-92-002 (Storm Water Management for Industrial Activities) may be used as a guidance and may be obtained by writing to the U.S. Environmental Protection Agency, Office of Water Resources (RC-4100), 401 M Street, S.W., Washington D.C. 20460 or by calling (202) 260-7786.

4. The following conditions are applicable to all facilities and shall be included in the SWP3 for the facility.

   a. The permittee shall conduct an annual inspection of the facility site to identify areas contributing to the storm water discharge from developed areas of the facility and evaluate whether measures to reduce pollutant loadings identified in the SWP3 are adequate and have been properly implemented in accordance with the terms of the permit or whether additional control measures are needed.

   b. The permittee shall develop a site map that includes all areas where stormwater may contact potential pollutants or substances that can cause pollution. Any location where reportable quantities leaks or spills have previously occurred are to be documented in the SWP3. The SWP3 shall contain a description of the potential pollutant sources, including, the type and quantity of material present and what action has been taken to assure stormwater precipitation will not directly contact the substances and result in contaminated runoff.

   c. Where experience indicates a reasonable potential for equipment failure (e.g. a tank overflow or leakage), natural condition of (e.g. precipitation), or other circumstances which result in significant amounts of pollutants reaching surface waters, the SWP3 should include a prediction of the direction, rate of flow and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.

   d. The permittee shall maintain for a period of three years a record summarizing the results of the inspection and a certification that the facility is in compliance with the SWP3 and the permit, and identifying any incidents of noncompliance. The summary report should contain, at a minimum, the date and time of inspection, name of inspector(s), conditions found, and changes to be made to the SWP3.

OTHER CONDITIONS(continued)

e. The summary report and the following certification shall be signed in accordance with LAC 33:IX.2503. The summary report is to be attached to the SWP3 and provided to the Department upon request.
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signatory requirements for the certification may be found in Standard Conditions, Section D.10 of this permit.

f. The permittee shall make available to the Department, upon request, a copy of the SWP3 and any supporting documentation.

5. The following shall be included in the SWP3, if applicable.

a. The permittee shall utilize all reasonable methods to minimize any adverse impact on the drainage system including but not limited to:

i. maintaining adequate roads and driveway surfaces;

ii. removing debris and accumulated solids from the drainage system; and

iii. cleaning up immediately any spill by sweeping, absorbent pads, or other appropriate methods.

b. All spilled product and other spilled wastes shall be immediately cleaned up and disposed of according to all applicable regulations, Spill Prevention and Control (SPC) plans or Spill Prevention Control and Countermeasures (SPCC) plans. Use of detergents, emulsifiers, or dispersants to clean up spilled product is prohibited except where necessary to comply with State or Federal safety regulations (i.e., requirement for non-slippery work surface). In all such cases, initial cleanup shall be done by physical removal and chemical usage shall be minimized.

c. All equipment, parts, dumpsters, trash bins, petroleum products, chemical solvents, detergents, or other materials exposed to stormwater shall be maintained in a manner which prevents contamination of stormwater by pollutants.

d. All waste fuel, lubricants, coolants, solvents, or other fluids used in the repair or maintenance of vehicles or equipment shall be recycled or contained for proper disposal. Spills of these materials are to be cleaned up by dry means whenever possible.

e. All storage tank installations (with a capacity greater than 660 gallons for an individual container, or 1,320 gallons for two or more containers in aggregate within a common

OTHER CONDITIONS(continued)

storage area) shall be constructed so that a secondary means of containment is provided for the entire contents of the largest tank plus sufficient freeboard to allow for precipitation. Diked areas should be sufficiently impervious to contain spills.

f. All diked areas surrounding storage tanks or stormwater collection basins shall be free of residual oil or other contaminants so as to prevent the accidental discharge of these materials in the event of flooding, dike failure, or improper draining of the diked area. All drains from diked areas shall be equipped with valves that shall be kept in the closed condition except during periods of supervised discharge.

g. All check valves, tanks, drains, or other potential sources of pollutant releases shall be inspected and maintained on a regular basis to assure their proper operation and to prevent the discharge of pollutants.

h. The permittee shall assure compliance with all applicable regulations promulgated under the Louisiana Solid Waste and Resource Recovery Law and the Hazardous Waste Management Law (L.R.S. 30:2151, etc.). Management practices required under above regulations shall be referenced in the SWP3.

i. The permittee shall amend the SWP3 whenever there is a change in the facility or change in the operation of the facility that materially increases the potential for the ancillary activities to result in a discharge of significant amounts of pollutants.

j. If the SWP3 proves to be ineffective in achieving the general objectives of preventing the release of significant amounts of pollutants to water of the state, then the specific objectives and requirements of the SWP3 shall be subject to modification to incorporate revised SWP3 requirements.

6. Facility Specific SWP3 Conditions:

a. **Site Map.** The locations of the following areas, where such areas are exposed to precipitation, shall also be included on the site map: grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage and/or hauled waste receiving station; and storage areas for process chemicals, petroleum products, solvents, fertilizers, herbicides and pesticides.

b. **Employee Training.** At a minimum, must address the following areas when applicable to a facility: petroleum product management; process chemical management; spill prevention and controls; fueling procedures; general good housekeeping practices; proper procedures for using fertilizer, herbicides and pesticides.

c. **Potential Pollutant Sources.** The summary of potential pollutant sources must also list the activities and pollutants from the following areas: grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage and/or hauled waste receiving station; and access roads/rail lines.

OTHER CONDITIONS(continued)

d. **Description of BMPs to be Used.** In addition to the other BMPs considered, the facility must consider routing storm water into treatment works, or covering exposed materials from the following exposed areas: grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage and/or hauled waste receiving station.

e. **Inspections:** The following areas must be included in all monthly inspections: access roads/rail lines; grit, screenings and other solids handling, storage or disposal areas; sludge drying beds, dried sludge piles; compost piles; septage and/or hauled waste receiving station areas.

f. **Wastewater and Washwater Requirements.** If washwaters are handled in another manner other than the treatment works, the disposal method must be described and all pertinent documentation must be attached to the plan.

OTHER CONDITIONS(continued)

SECTION C. MUNICIPAL WATER POLLUTION PREVENTION

Pollution Prevention Requirements

1. The permittee shall institute or continue programs directed towards pollution prevention. The permittee shall institute or continue programs to improve the operating efficiency and extend the useful life of the facility. The permittee will complete an annual Environmental Audit Report **each year** for the life of this permit according to the schedule below. A copy of the Environmental Audit Form has been attached to this permit. Please make additional copies to be utilized for each year of this permit. Additional copies can be obtained upon request.

   The audit evaluation period is as follows:

Audit Period Begins	Audit Period Ends	Audit Report Completion Date
Effective Date of Permit	12 Months from Audit Period Beginning Date	3 Months from Audit Period Ending Date

   These reports shall discuss the following items:

   a. The influent loading, flow, and design capacity of the facility;

   b. The effluent quality and plant performance;

   c. The age of the wastewater treatment facility;

   d. Bypasses and overflows of the tributary sewerage system and treatment works;

   e. The ultimate disposition of the sewage sludge;

   f. Landfilling of sewage sludge and potential alternatives (if applicable);

   g. New developments at the facility;

   h. Operator certification and training;

   i. The financial status of the facility; and

   j. A subjective evaluation of conditions at the facility.

OTHER CONDITIONS(continued)

2. A resolution from the permittee's governing body shall be obtained as part of the Environmental Audit Report. This resolution shall include, at a minimum, the following:

   a. An acknowledgement that the governing body has reviewed the Environmental Audit Report;

   b. A description of actions that the permittee will take to maintain compliance with the permit conditions, and if necessary, include a schedule outlining major projects to be accomplished.

3. The Environmental Audit Report and the governing body's resolution must be signed by a duly authorized representative of the permittee and shall be maintained with the permit and permit related records (i.e. lab data, DMRs), and made available upon request by duly authorized regional inspectors and/or DEQ Headquarters representatives.

OTHER CONDITIONS(continued)

SECTION D. CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The permittee shall operate an industrial pretreatment program in accordance with Section 402(b)(8) of the Clean Water Act, the General Pretreatment Regulations (LAC 33:IX.Subpart 2.Chapter 61) and the approved POTW pretreatment program submitted by the permittee. The City of Lake Charles Pretreatment Program was approved on March 20, 1992 and is tracked under the City of Lake Charles – Plant A LPDES Permit, LA0036340. LDEQ approved a non-substantial modification to the Pretreatment Program on August 22, 2006 and on November 1, 2006. The pretreatment program was subsequently modified to incorporate revised TBLLs. This modification was incorporated by LDEQ in the reissued LPDES permit LA0036340, effective September 1, 2009. The POTW pretreatment program is hereby incorporated by reference and shall be implemented in a manner consistent with the following requirements:

   a. Industrial user information shall be updated at a frequency adequate to ensure that all IUs are properly characterized at all times;

   b. The frequency and nature of industrial user compliance monitoring activities by the permittee shall be commensurate with the character, consistency and volume of waste. The permittee must inspect and sample the effluent from each Significant Industrial User in accordance with LAC 33:IX.6115.F.2.e. This is in addition to any industrial self-monitoring activities;

   c. The permittee shall enforce and obtain remedies for noncompliance by any industrial users with applicable Pretreatment Standards and Requirements;

   d. The permittee shall control through permit, order, or similar means, the contribution to the POTW by each Industrial User to ensure compliance with applicable Pretreatment Standards and Requirements. In the case of Industrial Users identified as significant under LAC 33:IX.6105, this control shall be achieved through individual or general control mechanisms, in accordance with LAC 33:IX.6115.F.1.c. Both individual and general control mechanisms must be enforceable and contain, at a minimum, the following conditions:

      (1) Statement of duration (in no case more than five years);
      (2) Statement of non-transferability without, at a minimum, prior notification to the POTW and provision of a copy of the existing control mechanism to the new owner or operator;
      (3) Effluent limits, including Best Management Practices, based on applicable general Pretreatment Standards, categorical Pretreatment Standards, local limits, and State and local law;
      (4) Self-monitoring, sampling, reporting, notification and recordkeeping requirements, including an identification of the pollutants to be monitored (If applicable, include the process for seeking a waiver for a pollutant neither present nor expected to be present in the Discharge in accordance with LAC 33:IX.6123.E.2. Any grant of the monitoring waiver by the control authority must be included as a condition in the user's control mechanism in accordance with LAC 33:IX.6123E.2.d.), sampling location, sampling frequency, and sample type, based on the applicable general

OTHER CONDITIONS(continued)

Pretreatment Standards in LAC 33:IX, Chapter 61, categorical Pretreatment Standards, local limits, and State and local law;

(5) Statement of applicable civil and criminal penalties for violation of Pretreatment Standards and Requirements, and any applicable compliance schedule. Such schedules may not extend the compliance date beyond federal deadlines; and

(6) Requirements to control slug discharges, if determined by the POTW to be necessary.

e. The permittee shall evaluate whether each Significant Industrial User needs a plan or other action to control slug discharges, in accordance with LAC 33:IX.6115.F.2.f.;

f. The permittee shall provide adequate staff, equipment, and support capabilities to carry out all elements of the pretreatment program; and,

g. The approved program shall not be modified by the permittee without the prior approval of the Louisiana Department of Environmental Quality.

2. The permittee shall establish and enforce specific limits to implement the provisions of LAC 33:IX.6109.A and B, as required by LAC 33:IX.6109.C. POTWs may develop Best Management Practices (BMPs) to implement paragraphs 6109.C.1 and C.2. Such BMPs shall be considered local limits and Pretreatment Standards. Each POTW with an approved pretreatment program shall continue to develop these limits as necessary and effectively enforce such limits.

The permittee shall, within sixty (60) days of the effective date of this permit, (1) submit a **WRITTEN CERTIFICATION** that a technical evaluation has demonstrated that the existing technically based local limits (TBLL) are based on current state water quality standards and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination, **OR** (2) submit a **WRITTEN NOTIFICATION** that a technical evaluation revising the current TBLL and a draft sewer use ordinance which incorporates such revisions will be submitted within 12 months of the effective date of this permit.

Upon approval by the Louisiana Department of Environmental Quality, Office of Environmental Services, all specific prohibitions or limits developed under this requirement are deemed to be conditions of this permit. The specific prohibitions set out in LAC 33:IX.6109.B shall be enforced by the permittee unless modified under this provision.

3. The permittee shall analyze the treatment facility influent and effluent for the presence of the toxic pollutants listed in LAC 33:IX.7107.Appendix D (LPDES Application Testing Requirements) Table II at least once per twelve (12) months and the toxic pollutants in Table III at least once per six (6) months. If, based upon information available to the permittee, there is reason to suspect the presence of any toxic or hazardous pollutant listed in Table V, or any other pollutant, known or suspected to adversely affect treatment plant operation, receiving water quality, or solids disposal procedures, analysis for those pollutants shall be performed at least once per six (6) months on both the influent and the effluent.

The influent and effluent samples collected shall be composite samples consisting of at least 12 aliquots collected at approximately equal intervals over a representative 24 hour period and

OTHER CONDITIONS(continued)

composited according to flow. Sampling and analytical procedures shall be in accordance with guidelines established in 40 CFR 136. The effluent samples shall be analyzed to a level at least as low as required in (6) below. Where composite samples are inappropriate, due to sampling, holding time, or analytical constraints, at least 4 grab samples, taken at equal intervals over a representative 24 hour period, shall be taken.

4. The permittee shall prepare annually a list of Industrial Users, which during the preceding twelve months were in significant noncompliance with applicable Pretreatment Requirements. For the purposes of this Part, significant noncompliance shall be determined based upon the more stringent of either criteria established at LAC 33:IX.6115.F.2.h [rev. 10/14/05] or criteria established in the approved POTW pretreatment program. This list is to be published annually in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW during the month of March.

   In addition, during the month of March the permittee shall submit an updated pretreatment program status report to the Louisiana Department of Environmental Quality, Office of Environmental Services containing the following information:

   a. An updated list of all significant industrial users and identify (if applicable) any Industrial Users that the Control Authority has chosen to classify as Non-Significant Categorical Industrial Users (NSCIUs) (defined in LAC 33:IX.6105.*Significant Industrial User*.b) and/or Middle Tier CIUs (defined in LAC 33:IX.6123.E.3.a-c).

      This list must also identify:

      (1) Industrial Users subject to categorical Pretreatment Standards that are determined by the Control Authority to be eligible and approved for reduced monitoring and reporting requirements under LAC 33:IX.6123.E.2 and 3;

      (2) Industrial Users subject to the following categorical Pretreatment Standards: Organic Chemicals, Plastics, and Synthetic Fibers (OCPSF) (40 CFR Part 414), Petroleum Refining (40 CFR Part 419), and Pesticide Chemicals (40 CFR Part 455) for which the Control Authority has chosen to use concentration-based standards (as allowed in LAC 33:IX.6111.C.6) in lieu of categorical flow-based mass standards;

      (3) Categorical Industrial Users subject to concentration-based standards for which the Control Authority has chosen to convert the concentration-based standards to equivalent mass limits, as allowed at LAC 33:IX.6111.C.5;

      (4) General Control Mechanisms used for similar groups of SIUs along with the substantially similar types of operations and the types of wastes that are the same, for each separate General Control Mechanism, as allowed at LAC 33:IX.6115.F.1.c; and

      (5) Best Management Practices or Pollution Prevention alternatives required by a categorical Pretreatment Standard or as a local limit requirement that are

OTHER CONDITIONS(continued)

implemented and documentation to demonstrate compliance, as required at LAC 33:IX.6123.B, E, and H.

b. For each industrial user listed the following information shall be included:

(1) Standard Industrial Classification (SIC) or NAISC code and categorical determination;

(2) Control document status. Whether the user has an effective control document, and the date such document was last issued, reissued, or modified, (indicate which industrial users were added to the system (or newly identified) within the previous 12 months);

(3) A summary of all monitoring activities performed within the previous 12 months. The following information shall be reported:

* total number of inspections performed;
* total number of sampling visits made;

(4) Status of compliance with both effluent limitations and reporting requirements. Compliance status shall be defined as follows:

* Compliant (C) - no violations during the previous 12 month period;

* Non-compliant (NC) - one or more violations during the previous 12 months but does not meet the criteria for significantly noncompliant industrial users;

* Significant Noncompliance (SNC) - in accordance with requirements described in 4. above; and

(5) For significantly noncompliant industrial users, indicate the nature of the violations, the type and number of actions taken (notice of violation, administrative order, criminal or civil suit, fines or penalties collected, etc.) and current compliance status. If ANY industrial user was on a schedule to attain compliance with effluent limits, indicate the date the schedule was issued and the date compliance is to be attained.

c. A list of all significant industrial users whose authorization to discharge was terminated or revoked during the preceding 12 month period and the reason for termination.

d. A report on any interference, pass through, upset or POTW permit violations known or suspected to be caused by industrial contributors and actions taken by the permittee in response.

e. The results of all influent and effluent analyses performed pursuant to 3. above.

f. A copy of the newspaper publication of the significantly noncompliant industrial users giving the name of the newspaper and the date published, and

OTHER CONDITIONS(continued)

g. The information requested may be submitted in tabular form as per the example tables provided for your convenience.

h. The monthly average water quality based effluent concentration necessary to meet the state water quality standards as developed in the approved technically based local limits.

5. The permittee shall provide adequate notice of the following:

a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the Act if it were directly discharging those pollutants; and

b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

Adequate notice shall include information on (i) the quality and quantity of effluent to be introduced into the treatment works, and (ii) any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

6. All effluent monitoring conducted in accordance with 3. above shall meet the Minimum Quantification Levels (MQL) shown in the table below:

OTHER REQUIREMENTS (continued)

MINIMUM QUANTIFICATION LEVELS (MQLs)

METALS AND CYANIDE			VOLATILE COMPOUNDS			VOLATILE COMPOUNDS		
Pollutant	Required MQL ug/L	EPA Test Method	Pollutant	Required MQL ug/L	EPA Test Method	Pollutant	Required MQL ug/L	EPA Test Method
Antimony (Total)[1]	60	200.7	Benzene[4]	10	624	1,1,2-Trichloroethane[5]	10	624
Arsenic (Total)[1]	10	206.2	Bromoform[5]	10	624	Trichloroethylene[5]	10	624
Beryllium (Total)[1]	5	200.7	Carbon Tetrachloride[5]	10	624	Vinyl Chloride[5]	10	624
Cadmium (Total)[2]	1	213.2	Chlorobenzene[5]	10	624	ACID COMPOUNDS		
Chromium (Total)[1]	10	200.7	Chlorodibromomethane[5]	10	624	2-Chlorophenol[5]	10	625
Chromium (3+)[1]	10	200.7	Chloroethane[6]	50	624	2,4-Dichlorophenol[5]	10	625
Chromium (6+)[1]	10	200.7	2-Chloroethyl vinyl ether[4]	10	624	2,4-Dimethylphenol[7]	10	625
Copper (Total)[2]	10	220.2	Chloroform[5]	10	624	4,6-Dinitro-o-Cresol [2 methyl 4,6-dinitrophenol[8]	50	625
Lead (Total)[2]	5	239.2	Dichlorobromomethane[5]	10	624	2,4-Dinitrophenol[5]	50	625
Mercury (Total)[1]	0.2	245.1	1,1-Dichloroethane[5]	10	624	2-Nitrophenol[6]	20	625
Molybdenum (Total)[9]	30	200.7	1,2-Dichloroethane[5]	10	624	4-Nitrophenol[5]	50	625
Nickel (Total)[1] [Freshwater]	40	200.7	1,1-Dichloroethylene[5]	10	624	p-Chloro-m-Cresol [4 chloro-3-methylphenol][5]	10	625
Nickel (Total)[2] [Marine]	5	249.2	1,2-Dichloropropane[5]	10	624	Pentachlorophenol[5]	50	625
Selenium (Total)[1]	5	270.2	1,3-Dichloropropylene[5]	10	624	Phenol[5]	10	625
Silver (Total)[2]	2	272.2	Ethylbenzene[5]	10	624	2,4,6-Trichlorophenol[5]	10	625
Thallium (Total)[1]	10	279.2	Methyl Bromide [Bromomethane][6]	50	624	BASE/NEUTRAL COMPOUNDS		
Zinc (Total)[1]	20	200.7	Methyl Chloride [Chloromethane][6]	50	624	Acenaphthene[5]	10	625
Cyanide (Total)[1]	10	335.2	Methylene Chloride[5]	20	624	Acenaphthylene[5]	10	625
DIOXIN			1,1,2,2-Tetrachloroethane[5]	10	624	Anthracene[5]	10	625
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	.00001	1613	Tetrachloroethylene[5]	10	624	Benzidine[6]	50	625
VOLATILE COMPOUNDS			Toluene[5]	10	624	Benzo(a)anthracene[5]	10	625
Acrolein[4]	50	624	1,2-trans-Dichloroethylene[5]	10	624	Benzo(a)pyrene[5]	10	625
Acrylonitrile[4]	50	624	1,1,1-Trichloroethane[5]	10	624	3,4-Benzofluoranthene[5]	10	625

OTHER REQUIREMENTS (continued)

BASE/NEUTRAL COMPOUNDS			BASE/NEUTRAL COMPOUNDS			PESTICIDES		
Pollutant	Required MQL ug/L	EPA Test Method	Pollutant	Required MQL ug/L	EPA Test Method	Pollutant	Required MQL ug/L	EPA Test Method
Benzo(ghi)perylene[6]	20	625	1,2-Diphenylhydrazine[4]	20	625	Delta-BHC[7]	.05	608
Benzo(k)fluoranthene[5]	10	625	Fluoranthene[5]	10	625	Chlordane[7]	.2	608
Bis(2-chloroethoxy) methane[5]	10	625	Fluorene[5]	10	625	4,4'-DDT[7]	.1	608
Bis(2-chloroethyl) ether[5]	10	625	Hexachlorobenzene[5]	10	625	4,4'-DDE (p,p-DDX)[7]	.1	608
Bis(2-chloroisopropyl) ether[5]	10	625	Hexachlorobutadiene[5]	10	625	4,4'-DDD (p,p-TDE)[7]	.1	608
Bis(2-ethylhexyl) phthalate[5]	10	625	Hexachlorocyclopentadiene[5]	10	625	Dieldrin[7]	.1	608
4-Bromophenyl phenyl ether[5]	10	625	Hexachloroethane[6]	20	625	Alpha-endosulfan[7]	.1	608
Butyl benzyl phthalate[5]	10	625	Indeno (1,2,3-cd) pyrene[6] (2,3-o-phenylene pyrene)	20	625	Beta-endosulfan[7]	.1	608
2-Chloronapthalene[5]	10	625	Isophorone[5]	10	625	Endosulfan sulfate[7]	.1	608
4-Chlorophenyl phenyl ether[5]	10	625	Naphthalene[5]	10	625	Endrin[7]	.1	608
Chrysene[5]	10	625	Nitrobenzene[5]	10	625	Endrin aldehyde[7]	.1	608
Dibenzo (a,h) anthracene[6]	20	625	N-nitrosodimethylamine[6]	50	625	Heptachlor[7]	.05	608
1,2-Dichlorobenzene[5]	10	625	N-nitrosodi-n-propylamine[6]	20	625	Heptachlor epoxide[7] (BHC-hexachlorocyclohexane)	.05	608
1,3-Dichlorobenzene[5]	10	625	N-nitrosodiphenylamine[6]	20	625	PCB-1242[7]	1.0	608
1,4-Dichlorobenzene[5]	10	625	Phenanthrene[5]	10	625	PCB-1254	1.0	608
3,3'-Dichlorobenzidine[6]	50	625	Pyrene[5]	10	625	PCB-1221	1.0	608
Diethyl Phthalate[5]	10	625	1,2,4-Trichlorobenzene[5]	10	625	PCB-1232	1.0	608
Dimethyl Phthalate[5]	10	625	PESTICIDES			PCB-1248	1.0	608
Di-n-Butyl Phthalate[5]	10	625	Aldrin[7]	.05	608	PCB-1260	1.0	608
2,4-Dinitrotoluene[5]	10	625	Alpha-BHC[7]	.05	608	PCB-1016	1.0	608
2,6-Dinitrotoluene[5]	10	625	Beta-BHC[7]	.05	608	Toxaphene[7]	5.0	608
Di-n-octyl Phthalate[5]	10	625	Gamma-BHC (Lindane)[7]	.05	608			

[1] Based on Contract Required Detection level(CRDL) developed pursuant to 40 CFR Part 300.430(b)(8)
[2] Method 213.2, 239.2, 220.2, 272.2
[3] Dioxin National Strategy
[4] No CRQL(Contract required Quantification Level developed pursuant to 40 CFR Part 300.430(b)(8)) established
[5] CRQL basis, equivalent to ML
[6] ML basis, higher than CRQL
[7] CRQL basis, no ML established
[8] CRQL basis, higher than ML
[9] Based on 3.3 times IDL published in 40 CFR 136, Appendix C

OTHER REQUIREMENTS (continued)

MONITORING RESULTS[1] FOR THE ANNUAL PRETREATMENT REPORT
REPORTING YEAR: _____, 200__ TO _____, 200__
TREATMENT PLANT : _____ NPDES PERMIT NO.

METALS, CYANIDE and PHENOLS	MAHL, if applicable in Φg/l [2]	Influent Values in Φg/l Dates Sampled				Daily Average Effluent Limit[3]	Effluent Dates Sampled			
Antimony (Total)										
Arsenic (Total)										
Beryllium (Total)										
Cadmium (Total)										
Chromium (Total)										
Copper (Total)										
Lead (Total)										
Mercury (Total)										
Molybdenum (Total)										
Nickel (Total)										
Selenium (Total)										
Silver (Total)										
Thallium (Total)										
Zinc (Total										
Cyanide (Total)										
Phenols (Total)										
[4]										

[1] It is advised that the influent and effluent samples are collected considering flow detention time through each plant. Analytical MQLs should be used so that the data can also be used for Local Limits assessment and NPDES application purposes.
[2] Maximum Allowable Headworks Loading limitation in Φg/l. Only complete for pollutants that have approved Technically Based Local Limits.
[3] Daily average effluent limit in the LPDES permit OR the applicable state Water Quality Standard calculated to an equivalent permit effluent limit. See Appendix B-1, Column (*19).
[4] Record the names of any pollutants [40 CFR 122, Appendix D, Table II and/or Table V] detected and the quantity in which they were detected.

OTHER REQUIREMENTS (continued)

SIGNIFICANTLY NONCOMPLIANT USERS - ENFORCEMENT ACTIONS TAKEN

Industrial User	Nature of Violation		Number of Actions Taken					PENALTIES COLLECTED	COMPLIANCE SCHEDULE			COMMENTS
	REPORTS	LIMITS	N.O.V.	A.O.	CIVIL	CRIMINAL	OTHER		DATE ISSUED	DATE DUE	CURRENT STATUS	

OTHER REQUIREMENTS (continued)

PRETREATMENT PROGRAM STATUS REPORT
UPDATED SIGNIFICANT INDUSTRIAL USERS LIST

INDUSTRIAL USER	SIC CODE	CATEGORICAL DETERMINATION	CONTROL DOCUMENT		NEW USER	TIMES INSPECTED	TIMES SAMPLED	COMPLIANCE STATUS				
			Y/N	LAST ACTION				REPORTS				EFFLUENT LIMITS
								BMR	90-DAY COMPLIANCE	SEMI ANNUAL	SELF MONITORING	

OTHER REQUIREMENTS (continued)

SECTION E. WHOLE EFFLUENT TOXICITY TESTING (7-DAY CHRONIC NOEC: FRESHWATER)

It is unlawful and a violation of this permit for a permittee or the designated agent, to manipulate test samples in any manner, to delay sample shipment, or to terminate or to cause to terminate a toxicity test. Once initiated, all toxicity tests must be completed unless specific authority has been granted by the Louisiana Department of Environmental Quality.

1. SCOPE AND METHODOLOGY

a. The permittee shall test the effluent for toxicity in accordance with the provisions in this section.

APPLICABLE TO OUTFALL(S):	001
CRITICAL DILUTION:	13%
EFFLUENT DILUTION SERIES:	6%, 7%, 10%, 13%, and 17%
COMPOSITE SAMPLE TYPE:	Defined at PART I
TEST SPECIES/METHODS:	40 CFR Part 136

Ceriodaphnia dubia chronic static renewal survival and reproduction test, Method 1002.0, EPA-821-R-02-013, or the most recent update thereof. This test should be terminated when 60% of the surviving females in the control produce three broods or at the end of eight days, whichever comes first.

Pimephales promelas (Fathead minnow) chronic static renewal 7-day larval survival and growth test, Method 1000.0, EPA-821-R-02-013, or the most recent update thereof. A minimum of five (5) replicates with ten (10) organisms per replicate must be used in the control and in each effluent dilution of this test.

b. The survival NOEC (No Observed Effect Concentration) is defined as the greatest effluent dilution at and below which lethality that is statistically different from the control (0% effluent) at the 95% confidence level does not occur. The NOEC for growth or reproduction is defined as the greatest effluent dilution at and below which sub-lethality that is statistically different from the control (0% effluent) at the 95% confidence level does not occur.

c. This permit may be reopened to require whole effluent toxicity limits, chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity.

d. Lethal test failure is defined as a demonstration of a statistically significant lethal effect at test completion to a test species at or below the critical dilution. Sub-lethal test failure is defined as a demonstration of a statistically significant sub-lethal effect (i.e., growth or reproduction) at test completion to a test species at or below the critical dilution.

2. PERSISTENT LETHAL and/or SUB-LETHAL EFFECTS

The requirements of this section apply only when a toxicity test demonstrates significant lethal and/or sub-lethal effects at or below the critical dilution.

OTHER REQUIREMENTS (continued)

If any valid test demonstrates significant lethal or sub-lethal effects to a test species at or below the critical dilution, the frequency of testing for that species is automatically increased to once per quarter for the term of the permit.

a. The permittee shall conduct a total of three (3) additional tests for any species that demonstrates statistically significant lethal or sub-lethal toxic effects at the critical dilution or lower effluent dilutions. The additional tests shall be conducted monthly during the next three consecutive months in which a discharge occurs to determine if toxicity is persistent or occurs on a periodic basis. The purpose of this testing is to determine whether toxicity is present at a level and frequency that will provide toxic sample results to use in performing a Toxicity Reduction Evaluation (TRE). If no additional test failures occur during the retest monitoring period, the testing frequency will be once per quarter for the term of the permit or until another test failure occurs. The permittee may substitute one of the additional tests in lieu of one routine toxicity test. A full report shall be prepared for each test required by this section in accordance with procedures outlined in item 4 of this section and submitted with the period discharge monitoring report (DMR) to the permitting authority for review.

b. IF LETHAL EFFECTS HAVE BEEN DEMONSTRATED: If any of the valid additional tests demonstrates significant lethal effects at or below the critical dilution, the permittee shall initiate Toxicity Reduction Evaluation (TRE) requirements as specified in item 6 of this section. The permittee shall notify the Department of Environmental Quality, Office of Environmental Compliance - Permit Compliance Unit in writing within 5 days of the failure of any retest, and the TRE initiation date will be the test completion date of the first failed retest. A TRE may also be required due to a demonstration of intermittent lethal effects at or below the critical dilution, or for failure to perform the required retests.

c. IF ONLY SUB-LETHAL EFFECTS HAVE BEEN DEMONSTRATED: If any two of the three valid additional tests demonstrate significant sub-lethal effects at 75% effluent dilution or lower, the permittee shall initiate the Toxicity Reduction Evaluation (TRE) requirements (emphasizing investigations pertaining to sub-lethal toxicity) as specified in Item 6 of this section. The permittee shall notify the Department of Environmental Quality, Office of Environmental Compliance - Permit Compliance Unit in writing within 5 days of the failure of any retest, and the TRE initiation date will be the test completion date of the second failed retest. A TRE concentrating on sub-lethal effects may also be required for failure to perform the required tests.

d. The provisions of item 2.a are suspended upon submittal of the **TRE Action Plan**.

3. **REQUIRED TOXICITY TESTING CONDITIONS**

a. Test Acceptance

The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied, including the following additional criteria:

i. The toxicity test control (0% effluent) must have survival equal to or greater than

OTHER REQUIREMENTS (continued)

80%.

ii. The mean number of Ceriodaphnia dubia neonates produced per surviving female in the control (0% effluent) must be 15 or more.

iii. 60% of the surviving control females must produce three broods.

iv. The mean dry weight of surviving Fathead minnow larvae at the end of the 7 days in the control (0% effluent) must be 0.25 mg per larva or greater.

v. The percent coefficient of variation between replicates shall be 40% or less in the control (0% effluent) for: the young of surviving females in the Ceriodaphnia dubia reproduction test; the growth and survival endpoints of the Fathead minnow test.

vi. The percent coefficient of variation between replicates shall be 40% or less in the critical dilution, unless significant lethal or nonlethal effects are exhibited for: the young of surviving females in the Ceriodaphnia dubia reproduction test; the growth and survival endpoints of the Fathead minnow test.

Test failure may not be construed or reported as invalid due to a coefficient of variation value of greater than 40%. A repeat test shall be conducted within the required reporting period of any test determined to be invalid.

b. Statistical Interpretation

i. For the Ceriodaphnia dubia survival test, the statistical analyses used to determine if there is a significant difference between the control and the critical dilution shall be Fisher's Exact Test as described in EPA-821-R-02-013, or the most recent update thereof.

If the conditions of Test Acceptability are met in Item 3.a above and the percent survival of the test organism is equal to or greater than 80% in the critical dilution and all lower dilution concentrations, the test shall be considered to be a passing test, and the permittee shall report a survival NOEC of not less than the critical dilution for the DMR reporting requirements found in Item 4 below.

ii. For the Ceriodaphnia dubia reproduction test and the Fathead minnow larval survival and growth test, the statistical analyses used to determine if there is a significant difference between the control and the critical dilution shall be in accordance with the methods for determining the No Observed Effect Concentration (NOEC) as described in EPA-821-R-02-013, or the most recent update thereof.

c. Dilution Water

i. Dilution water used in the toxicity tests will be receiving water collected as close to the point of discharge as possible but unaffected by the discharge. The permittee shall substitute synthetic dilution water of similar pH, hardness and alkalinity to the closest downstream perennial water for;

OTHER REQUIREMENTS (continued)

A. toxicity tests conducted on effluent discharges to receiving water classified as intermittent streams; and

B. toxicity tests conducted on effluent discharges where no receiving water is available due to zero flow conditions.

ii. If the receiving water is unsatisfactory as a result of instream toxicity (fails to fulfill the test acceptance criteria of item 3.a), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:

A. a synthetic dilution water control which fulfills the test acceptance requirements of item 3.a was run concurrently with the receiving water control;

B. the test indicating receiving water toxicity has been carried out to completion (i.e., 7 days);

C. the permittee includes all test results indicating receiving water toxicity with the full report and information required by item 4 below; and

D. the synthetic dilution water shall have a pH, hardness and alkalinity similar to that of the receiving water or closest downstream perennial water not adversely affected by the discharge, provided the magnitude of these parameters will not cause toxicity in the synthetic dilution water.

d. Samples and Composites

i. The permittee shall collect a minimum of three flow-weighted 24-hour composite samples from the outfall(s) listed at item 1.a above. A 24-hour composite sample consists of a minimum of 4 effluent portions collected at equal time intervals representative of a 24-hour operating day and combined proportional to flow or a sample continuously collected proportional to flow over a 24-hour operating day.

ii. The permittee shall collect second and third 24-hour composite samples for use during 24-hour renewals of each dilution concentration for each test. The permittee must collect the 24-hour composite samples such that the effluent samples are representative of any periodic episode of chlorination, biocide usage or other potentially toxic substance discharged on an intermittent basis.

iii. The permittee must collect the 24-hour composite samples so that the maximum holding time for any effluent sample shall not exceed 72 hours. The permittee must have initiated the toxicity test within 36 hours after the collection of the last portion of the first 24-hour composite sample. Samples shall be chilled to 0-6 degrees Centigrade during collection, shipping and/or storage.

iv. If the flow from the outfall(s) being tested ceases during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions and the sample holding time are waived

OTHER REQUIREMENTS (continued)

during that sampling period. However, the permittee must collect an effluent composite sample volume during the period of discharge that is sufficient to complete the required toxicity tests with daily renewal of effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The effluent composite sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report required in item 4 of this section.

4. REPORTING

a. A valid test must be completed and test results must be submitted for each species during each Monitoring Period. The permittee shall prepare a full report of the results of all tests conducted pursuant to this section in accordance with the Report Preparation Section of EPA-821-R-02-013, or the most current publication, for every valid or invalid toxicity test initiated whether carried to completion or not. The permittee shall retain each full report pursuant to the provisions of Standard Conditions.C of this permit. For any test which fails, is considered invalid, or which is terminated early for any reason, the full report must be submitted for agency review. The permittee shall submit the first full report to the following address:

Department of Environmental Quality
Office of Environmental Compliance
P.O. Box 4312
Baton Rouge, Louisiana 70821-4312
Attn: Permit Compliance Unit

b. The permittee shall submit the results of each valid toxicity test on the DMR for that Monitoring Period in accordance with Standard Conditions. D.4 and the DMR Monitoring Period schedule contained in Part II of this permit. Submit retest information clearly marked as such on the DMR for the Monitoring Period in which the retest occurred. Only results of valid tests are to be reported on the DMR. The permittee shall submit the Table 1 Summary Sheet with each valid test.

i. Pimephales promelas (Fathead Minnow)

A. If the No Observed Effect Concentration (NOEC) for survival is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TLP6C.

B. Report the NOEC value for survival, Parameter No. TOP6C.

C. Report the NOEC value for growth, Parameter No. TPP6C.

D. If the No Observed Effect Concentration (NOEC) for growth is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TGP6C.

E. Report the highest (critical dilution or control) Coefficient of Variation, Parameter No. TQP6C.

OTHER REQUIREMENTS (continued)

ii. Ceriodaphnia dubia

A. If the NOEC for survival is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TLP3B.

B. Report the NOEC value for survival, Parameter No. TOP3B.

C. Report the NOEC value for reproduction, Parameter No. TPP3B.

D. If the No Observed Effect Concentration (NOEC) for reproduction is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TGP3B.

E. Report the highest (critical dilution or control) Coefficient of Variation, Parameter No. TQP3B.

iii. The permittee shall report the following results for all VALID toxicity retests on the DMR for that Monitoring Period.

A. Retest #1 (STORET 22415): If the first monthly retest following failure of a routine test for either test species results in an NOEC for survival less than the critical dilution, report a "1"; otherwise, report a "0".

Retest #1 (STORET 22418): If the first monthly retest following failure of a routine test for either test species results in an NOEC for growth or reproduction that is less than the critical dilution, report a "1"; otherwise, report a "0".

B. Retest #2 (STORET 22416): If the second monthly retest following failure of a routine test for either test species results in an NOEC for survival less than the critical dilution, report a "1"; otherwise, report a "0".

Retest #2 (STORET 22419): If the second monthly retest following failure of a routine test for either test species results in an NOEC for growth or reproduction that is less than the critical dilution, report a "1"; otherwise, report a "0".

C. Retest #3 (STORET 51443): If the third monthly retest following failure of a routine test for either test species results in an NOEC for survival less than the critical dilution, report a "1"; otherwise, report a "0".

Retest #3 (STORET 51444): If the third monthly retest following failure of a routine test for either test species results in an NOEC for growth or reproduction that is less than the critical dilution, report a "1"; otherwise, report a "0".

If, for any reason, a retest cannot be performed during the Monitoring Period in which the triggering routine test failure is experienced, the permittee shall report it

OTHER REQUIREMENTS (continued)

on the following Monitoring Period's DMR, and the comments section of the DMRs shall be annotated to that effect. If retesting is not required during a given Monitoring Period, the permittee shall leave these DMR fields blank. .

The permittee shall submit the toxicity testing information contained in Table 1 of this permit with the DMR subsequent to each and every toxicity test Monitoring Period. The DMR and the summary table should be sent to the address indicated in 4.a.

5. MONITORING FREQUENCY REDUCTION

a. Upon successfully passing the first four consecutive quarters of WET testing after permit issuance/reissuance and in the absence of subsequent lethal and/or sub-lethal toxicity for one or both test species at or below the critical dilution, the permittee may apply for a testing frequency reduction. If granted, the monitoring frequency for that test species may be reduced to not less than once per year for the less sensitive species (usually the Fathead minnow) and not less than twice per year for the more sensitive test species (usually the Ceriodaphnia dubia).

b. CERTIFICATION - The permittee must certify in writing that no test failures have occurred and that all tests meet all test acceptability criteria in item 3.a above. In addition, the permittee must provide a list with each test performed including test initiation date, species, NOECs for lethal and sub-lethal effects, and the maximum coefficient of variation for the controls. Upon review and acceptance of this information the agency will issue a letter of confirmation of the monitoring frequency reduction. A copy of the letter will be forwarded to the agency's Permit Compliance Unit to update the permit reporting requirements.

c. This monitoring frequency reduction applies only until the expiration date of this permit, at which time the Monitoring Frequency/Monitoring Period for both test species reverts to once per quarter until the permit is re-issued.

d. LETHAL AND/OR SUB-LETHAL FAILURES - If any test fails the lethal and/or sub-lethal endpoint at any time during the term of this permit, three monthly retests are required and the monitoring frequency for the affected test species shall be increased to once per quarter until the permit is re-issued. Monthly retesting is not required if the permittee is performing a TRE.

6. TOXICITY REDUCTION EVALUATION (TRE)

a. The permittee shall submit a **Toxicity Reduction Evaluation (TRE) Action Plan and Schedule** for conducting a TRE for the following:

i. If lethal effects have been demonstrated: within (90) days of confirming lethality in any retest; or

ii. If only sub-lethal effects have been demonstrated: within (90) days of confirming sub-lethality at 75% effluent dilution or lower in any two out of three retests.

The **TRE Action Plan** shall specify the approach and methodology to be used in

OTHER REQUIREMENTS (continued)

performing the TRE. A Toxicity Reduction Evaluation is an investigation intended to determine those actions necessary to achieve compliance with water quality-based effluent requirements and/or chemical-specific limits by reducing an effluent's toxicity (includes sub-lethal toxicity, if applicable) to an acceptable level. A TRE is defined as a step-wise process which combines toxicity testing and analyses of the physical and chemical characteristics of a toxic effluent to identify the constituents causing effluent lethal and/or sub-lethal toxicity and/or treatment methods which will reduce the effluent toxicity. The **TRE Action Plan** shall lead to the successful elimination of effluent lethal and/or sub-lethal toxicity at the critical dilution and include the following:

i. Specific Activities. The plan shall detail the specific approach the permittee intends to utilize in conducting the TRE. The approach may include toxicity characterizations, identifications and confirmation activities, source evaluation, treatability studies, or alternative approaches. When the permittee conducts Toxicity Characterization Procedures the permittee shall perform multiple characterizations and follow the procedures specified in the documents **"Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA-600/6-91/003)** and **"Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I" (EPA-600/6-91/005)**, or alternate procedures. When the permittee conducts Toxicity Identification Evaluations and Confirmations, the permittee shall perform multiple identifications and follow the methods specified in the documents **"Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080)** and **"Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081)**, as appropriate;

The documents referenced above may be obtained through the National Technical Information Service (NTIS) by phone at 1-800-553-6847, or by writing:

U.S. Department of Commerce
National Technical Information Service
5285 Port Royal Road
Springfield, VA 22161

ii. Sampling Plan (e.g., locations, methods, holding times, chain of custody, preservation, etc.). The effluent sample volume collected for all tests shall be adequate to perform the toxicity test, toxicity characterization, identification and confirmation procedures, and conduct chemical specific analyses when a probable toxicant has been identified;

Where the permittee has identified or suspects specific pollutant(s) and/or source(s) of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical specific analyses for the identified and/or suspected pollutant(s) and/or source(s) of effluent toxicity. Where lethality was demonstrated within 48 hours of test initiation, each 24-hour composite sample shall be analyzed independently. Otherwise the permittee may substitute a composite sample, comprised of equal portions of the individual 24-hour composite samples, for the chemical specific analysis;

OTHER REQUIREMENTS (continued)

iii. Quality Assurance Plan (e.g., QA/QC implementation, corrective actions, etc.); and

iv. Project Organization (e.g., project staff, project manager, consulting services, etc.).

b. The permittee shall initiate the **TRE Action Plan** within thirty (30) days of plan and schedule submittal. The permittee shall assume all risks for failure to achieve the required toxicity reduction.

c. The permittee shall submit a quarterly **TRE Activities Report**, with the Discharge Monitoring Report in the months of January, April, July, and October, containing information on toxicity reduction evaluation activities including:

i. any data and/or substantiating documentation which identify the pollutant(s) and/or source(s) of effluent lethal and/or sub-lethal toxicity;

ii. any studies/evaluations and results on the treatability of the facility's effluent lethal and/or sub-lethal toxicity; and

iii. any data which identify effluent toxicity control mechanisms that will reduce effluent toxicity to achieve compliance with permit biomonitoring requirements and/or chemical-specific limits.

The **TRE Activities Report** shall be submitted to the following addresses:

Department of Environmental Quality
Office of Environmental Compliance
P.O. Box 4312
Baton Rouge, Louisiana 70821-4312
Attn: Permit Compliance Unit

U.S. Environmental Protection Agency, Region 6
Water Enforcement Branch
1445 Ross Avenue
Dallas, Texas 75202

d. The permittee shall submit a Final Report on Toxicity Reduction Evaluation Activities no later than twenty-eight (28) months from confirming lethality and/or sub-lethality (if applicable) in the retests, which provides information pertaining to the specific control mechanism selected that will, when implemented, result in the permittee achieving compliance with permit biomonitoring requirements and/or chemical-specific limits. The report will also provide a specific corrective action schedule for implementing the selected control mechanism.

A copy of the Final Report on Toxicity Reduction Evaluation Activities shall also be submitted to the above addresses.

OTHER REQUIREMENTS (continued)

e. Quarterly testing during the TRE is a minimum monitoring requirement. LDEQ recommends that permittees required to perform a TRE not rely on quarterly testing alone to ensure success in the TRE, and that additional screening tests be performed to capture toxic samples for identification of toxicants. At the end of the TRE, LDEQ will consider all information submitted and establish appropriate controls to prevent future toxic discharges, including WET and/or chemical-specific limits per state regulations at LAC 33:IX.2707.D.1.e.

OTHER REQUIREMENTS (continued)

TABLE 1
SUMMARY SHEET
Ceriodaphnia dubia SURVIVAL AND REPRODUCTION TEST

PERMITTEE: City of Lake Charles
FACILITY SITE: Wastewater Treatment Plant D
NPDES PERMIT NUMBER: LA0117690
OUTFALL IDENTIFICATION: 001
OUTFALL SAMPLE IS FROM X SINGLE _____ MULTIPLE DISCHARGE
BIOMONITORING LABORATORY: _____
DILUTION WATER USED: _____ RECEIVING WATER _____ LAB WATER
CRITICAL DILUTION _____ % DATE TEST INITIATED _____

1. **LOW-FLOW LETHALITY:**
Is the mean survival at 7 days significantly less (p=0.05) than the control survival at the low-flow or critical dilution? _____Yes _____No

PERCENT SURVIVAL - Ceriodaphnia

TIME OF READING	PERCENT EFFLUENT					
	0 %	6%	7%	10%	13%	10%
24-HOUR						
48-HOUR						
7-DAY						

2. **LOW-FLOW NON-LETHALITY:**
Is the mean number of young produced per female at 7 days significantly less (p=0.05) than the control's number of young per female for the low-flow or critical dilution? _____Yes _____No

NUMBER OF YOUNG PRODUCED PER FEMALE @ 7 DAYS - Ceriodaphnia

REPLICATE	PERCENT EFFLUENT					
	0 %	6%	7%	10%	13%	10%
A B C D E F G H I J						
Mean No. of young						
CV%*						

* Coefficient of variation = Standard Deviation * 100/mean

OTHER REQUIREMENTS (continued)

3. Are the test results to be considered valid? _____Yes _____No
   If _X_ no (test invalid) , what reasons for invalidity?

4. Is this a retest of a previous invalid test? _____Yes _____No
   Is this a retest of a previous test failure? _____Yes _____No

5. Enter percent effluent corresponding to each NOEC (No Observed Effect Concentration) for Ceriodaphnia:

   a. NOEC SURVIVAL = _____% effluent

   b. NOEC REPRODUCTION = _____% effluent

OTHER REQUIREMENTS (continued)

TABLE 1
SUMMARY SHEET
Pimephales promelas ("fathead minnow") SURVIVAL AND GROWTH TEST

PERMITTEE: City of Lake Charles
FACILITY SITE: Wastewater Treatment Plant D
NPDES PERMIT NUMBER: LA0119770
OUTFALL IDENTIFICATION: 001
OUTFALL SAMPLE IS FROM X SINGLE _____ MULTIPLE DISCHARGE
BIOMONITORING LABORATORY: _____
DILUTION WATER USED: _____ RECEIVING WATER _____ LAB WATER
CRITICAL DILUTION _____ % DATE TEST INITIATED _____

1. **LOW-FLOW LETHALITY:**
Is the mean survival at 7 days significantly less (p=0.05) than the control survival at the low-flow or critical dilution? _____Yes _____No

PERCENT SURVIVAL – Pimephales

PERCENT EFFLUENT	% SURVIVAL / REPLICATES				MEAN % SURVIVAL			CV %
	A	B	C	D	24-HR	48-HR	7 DAY	
0%								
6%								
7%								
10%								
13%								
10%								

2. **LOW-FLOW NON-LETHALITY:**
Is the mean dry weight (growth) at 7 days significantly less (p=0.05) than the control's dry weight (growth) for the low-flow or critical dilution? _Yes _____No

DATA TABLE FOR GROWTH – Pimephales

PERCENT EFFLUENT	AVERAGE DRY WEIGHT IN MILLIGRAMS IN REPLICATE CHAMBERS					MEAN DRY WEIGHT	CV%*
	A	B	C	D	E		
0%							
6%							
7%							
10%							
13%							
10%							

* Coefficient of variation – standard deviation x 100/mean

OTHER REQUIREMENTS (continued)

3. Are the test results to be considered valid? _____Yes _____No
   If _X_no (test invalid) , what reasons for invalidity?

4. Is this a retest of a previous invalid test? _____Yes _____No
   Is this a retest of a previous test failure? _____Yes _____No

5. Enter percent effluent corresponding to each NOEC (No Observed Effect Concentration) for Pimephales:

   a. NOEC SURVIVAL = _____% effluent

   b. NOEC GROWTH = _____% effluent